					M /	SP5-Z		
LTPP SPS Project Deviation Report	State Code			2		<u>6</u>		
Project Summary Sheet	Project Code	0	_2	_0		0		
Project-Classification Information								
SPS Experiment Number: SPS-2	State or	Province: N	/lichigan					
LTPP Region:	LTPP Region: North Atlantic North Central Southern Western							
Climate Zone: Dry Free	ze 🗌 Dry-N	o Freeze	⊠ Wet-F	reeze 🗌	Wet-N	o Freeze		
Subgrade Classification:								
Project Experiment Classification Designation	n (SPS 1, 2 and 8	8): K						
Construction Start Date: April, 1993	Constru	action End D	ate: Sept	ember, 1993				
FHWA Incentive Funds Provided to Agency	for this Project:				Yes	☐ No		
	Deviation Sur	nmary			,			
Site Location Deviations:	o Deviations	Minor D	eviations	Signifi	cant De	eviations		
Construction Deviations:	o Deviations	Minor D	eviations	Signifi	cant De	eviations		
Data Collection and Processing Status Summary								
Inventory Data (SPS 5, 6, 7, 9): NA	omplete Submis	ssion	Incomp	lete 🔲 D	ata No	t Available		
Materials Data:	All Scheduled	l Samples Ol	otained ar	nd Tested	In	complete		
Construction Data: All Required Data Obtained Incomplete/Missing Data Elements								
Historical Traffic Data: NA								
Required Estimates Not Submitted								
Traffic Monitoring Equipment:	⊠ WIM	1 Installed O	n-Site	AVC In	stalled	On-Site		
	☐ ATR	Installed O	n-Site	☐ No Equ	iipmen	t Installed		
Traffic Monitoring: Preferred Co	ntinuous 🗌	Minimum	☐ Below	w Minimum	Si	te Related		
Traffic Monitoring Data:	onitoring Data	Submitted	☐ No M	Ionitoring D	ata Sub	mitted		
FWD Measurements: Preconstruction Tests Performed Construction Tests Performed								
Post-construction Tests Performed								
Profile Measurements: Preconstr	uction Tests Pe	rformed	Post-	construction	Tests I	Performed		
Distress Measurements: Preconstr	uction Tests Pe	rformed	⊠ Post-	construction	Tests I	Performed		
Maint. & Rehab. Data: 🔀 Compl	ete Submission	. Incon	nplete	Data No	t Avail	able		
Friction Data: Compl	ete Submission	Incon	nplete	Data No	t Avail	able		
Report Status								
Materials Sampling and Test Plan:	Documen	nt Prepared		Final Su	bmitted	d to FHWA		
Construction Report:	Documen	nt Prepared		Final Su	bmitted	d to FHWA		
AWS: (SPS 1, 2, & 8)	nstalled	⊠ AWS	Installatio	on Report Su	bmitte	d to FHWA		

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Data Collection and	Project Code	<u>0</u>	<u>2</u>	<u>0</u>	<u>0</u>		
Materials Sampling and Testing Deviations							
Comments Pertain to All Test Sections on Project							
Comments Pertain Only to Section(s): (Specify)							
Data Collection & Material Sampling and Testing Deviation Comments:							
Early in the project, elevation measurements were not take	n at the required	embank	ment lay	er locatio	ns.		
Elevation measurements have only a fair to poor correlatio	n with the measu	red pave	ement th	ickness.			
Fresh concrete samples of test section 260259 were not obta	ined within the li	imits of	that test s	section.			
The AWS was not installed until 1996. Until then, climatic	data was obtaine	d from t	he Toled	o, Ohio A	irport,		
which is ±10 miles away.							
Split spoon samples were used in place of shelby tubes, du	e to the hardness	of the su	ıbgrade a	and the p	resence of		
gravel and cobblestone.							
The strength of the concrete in test section 260219 is well be	elow that of the o	ther sect	ions con	structed v	with 550		
psi concrete.							
The profile measurements were not performed until October 1994.							
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Site Location Guidelines Deviations	Project Code	<u>0</u>	_2	<u>0</u>	_0		
Comments Pertain to All Test Sections on Project	-						
☐ Comments Pertain Only to Section(s): (Specify)							
Site Location Guideline Deviation Comments:							
Test section 260259 (control section) has tied concrete shoulders, neoprene transverse joint seals, and hot-poured							
rubberized asphalt longitudinal joint seals.							
A low volume road intersects the test sections near the mid	dle of the experim	ient, w	hich caus	ses a mino	or		
difference in traffic volumes and loading across the test sec	tions. To help mo	nitor tl	his differ	ence, the	WIM was		
located to the south of the interchange and an AVC was pla	aced on each side	of the i	nterchan	ge.			
Test sections 260214, 260218, and 260219 are located on dee	p fills and on a su	perelev	ated hor	izontal cı	ırve (1°).		
Vertical curves, with grades ranging from -0.81% to +0.55%	exist within the t	est sect	ion limit	s.			
A 30" concrete culvert exists ±10 ½' below the top of the pa	vement surface in	test se	ction 260	224.			
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Construction Guidelines Deviations	Project Code	0	_2	<u>0</u>	<u>0</u>	
Comments Pertain to All Test Sections on Project						
Comments Pertain Only to Section(s): (Specify)						
Construction Guidelines Deviation Comments:						
The moisture content of the compacted subgrade was not	within the range o	f 85% to	120% of	optimun	n for test	
sections 260213, 260214, 260215, 260216, 260217, 260218, 2	60219, 260221. This	s resulted	d in seve	re desicc	ation	
cracking of the subgrade which the contractor had to rew	ork.					
			******	<u> </u>		
The DGAB layer in test section 2602121 segregated. The	contractor reworked	d and im	proved (he area b	out some	
segregation still existed.						
The surface of the DGAB was not kept uniformly moist in	n test sections 26021	3, 26021	4, 260215	, and 260	0216.	
The underdrain filter fabric did not extend the minimum	of 1' under the pav	ement.				
Traffic was allowed on the outside shoulder of the PATB,	, which resulted in 1	rutting o	f ½" to 1	34".		
A transverse construction joint in the LCB was located within the test section limits.						
The paving equipment was allowed to operate on the outside shoulder area of the LCB, which resulted in						
longitudinal cracking in test section 260217 and 260220.						
Fresh LCB samples revealed a slump lower than the 1" lir	mit for test sections	260218,	260219, a	nd 26022	20.	
Cores of the LCB in test section 260218 did not satisfy the	thickness tolerance	of desig	gn ± ½".			
Fresh concrete samples revealed a slump lower than the 1	" limit in test section	ons 2602	15 and 20	60219, an	d air	
contents lower than the 5.0% limit in test sections 260214, 260219, and 260220.						
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Construction Guidelines Deviations	Project Code	_0	<u>2</u>	<u>0</u>	<u>0</u>		
Comments Pertain to All Test Sections on Project							
Comments Pertain Only to Section(s): (Specify)							
Construction Guidelines Deviation Comments:							
The 14 day flexural strength requirements were not satisfied.							
Cores of the concrete in test sections 260213, 260214, 260217	, 260218, 260222,	and 260	259 did 1	not satisfy	the		
tolerance of design $\pm \frac{1}{4}$ ".							
Test sections 260216, 260222, and 260223 had to be undercu	t because of unsta	ble sub	grade m	aterial.			
Test sections 260221 and 260224 had areas of unstable subg	rade but were not	under	eut.				
Large quantities of PATB were rejected in test sections 2602	222 and 260223 be	cause th	ne materi	al was no	t		
adequately coated with asphalt.							
The contractor had problems maintaining the proper eleva	tion for the PATB	because	e the pav	er was no	t using a		
stringline.							
Test section 260213 was diamond ground to remove a "mus	st-grind" bump.						
							

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Other Deviations Project Code <u>0</u> <u>2</u> <u>0</u>		<u>0</u>				
Comments Pe	ertain to All Test Sections on Project				a t we we see that to also were	
Comments Pe	ertain Only to Section(s): (Specify)					
Other Deviation Co	omments:					
None.						
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